California Department of Transportation
District 11, P.O. Box 85406
San Diego, CA 92186-5406
ph: (619) 688-6670 Fax (619) 688-3695
www.dot.ca.gov/dist11

SAN DIEGO AND IMPERIAL COUNTIES

I-15 Reversible Lane Control System Upgrade

SR-163 to Ted Williams Parkway

February 2005

OVERALL GOALS

- Enhance the congestion relief benefits of the existing reversible lanes facility.
- Maximize high safety standards by minimizing the need for manual field operation and exposure of field personnel to the hazards of moving traffic.
- Modernize system to accommodate future I-15 Managed Lanes project.

THE PROJECT

The Reversible Lane Control System project (RLCS) will enhance and expand the capabilities of the existing reversible lane control system currently in operation. The new RLCS system will use state of the art technology to provide new control device types and locations by reducing opening/closing cycle times for gates, changeable message signs and pop-ups, and improve the general operations and support capabilities. New field elements such as gates, pop-ups and changeable message signs can be added as needed to the new system. Additionally, a user friendly Graphical User Interface (GUI) will be provided as well as management support features to share information with the emerging Intelligent Transportation Systems. It is anticipated that once the I-15 managed lanes construction project is completed, the operation of the existing reversible lane facility will be affected by requiring additional entrance/exit points and additional field devices such as, new gates, in-pavement lights, pop-ups and

The Project cont.

changeable message signs. The RLCS project will help to integrate the new field devices into the existing system.

TRAFFIC

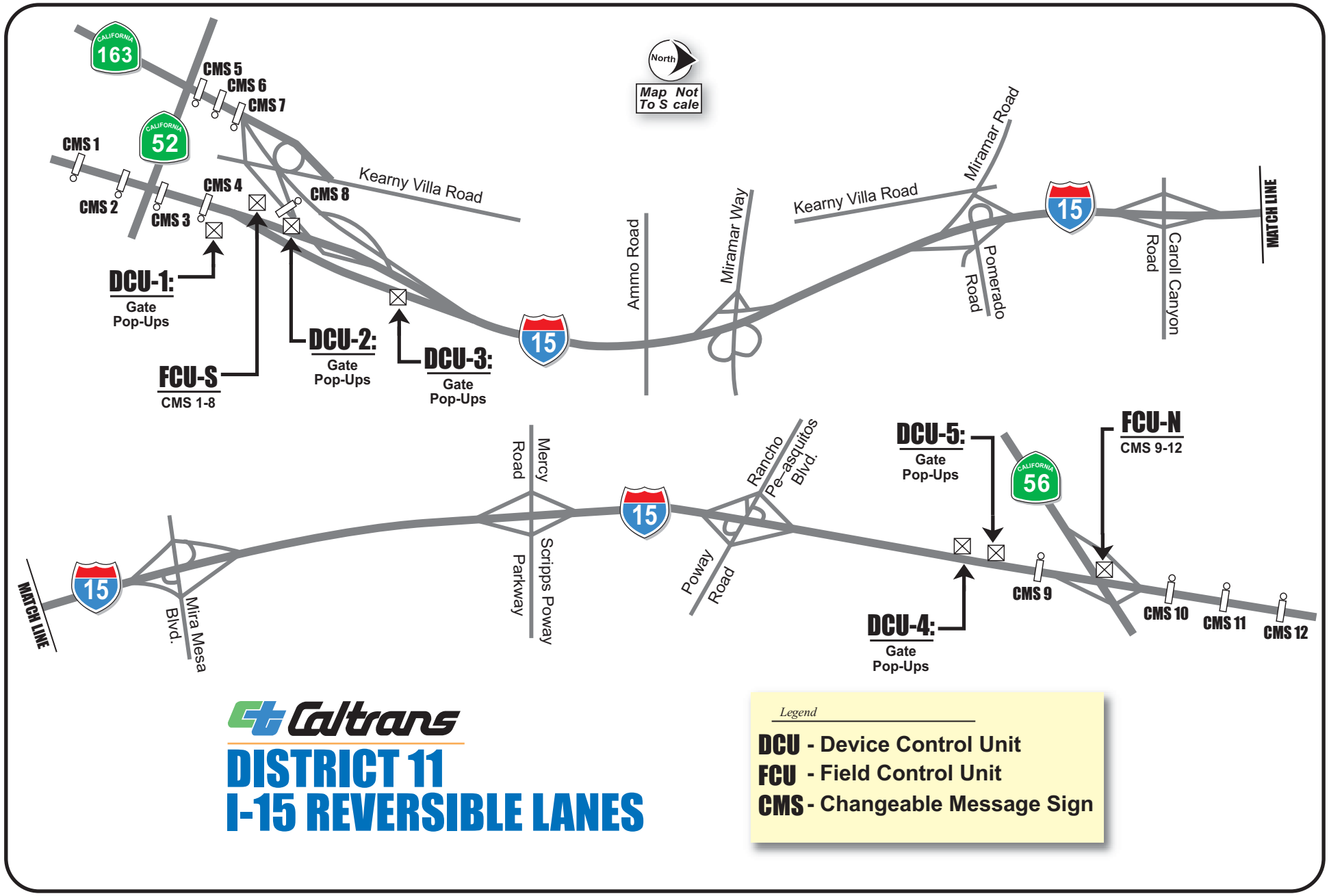
The volume of traffic along Interstate 15 has tripled in the past decade. Traffic volumes have topped 290,000 vehicles per day at the south end of the Express Lanes, and 223,000 vehicles per day at the north end. Additionally, SANDAG demographic forecast projects a 92% population increase in the North County area by the year 2010.

FUNDING

The estimated cost of this project is $2.3 million with funding from both state and federal sources.

SCHEDULE

The contract was awarded and executed in December 2004. The new I-15 Reversible Lane Control System is expected to be in operation by summer 2006.



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DISTRICT 11
I-15 REVERSIBLE LANES

Legend

DCU - Device Control Unit
FCU - Field Control Unit
CMS - Changeable Message Sign